## POSITION INITIALS ID NO. DATE FEE DETERMINATION O.I.P.E. CLASSIFIER FORMALITY REVIEW RESPONSE FORMALITY REVIEW INITIALS ID NO. DATE OI.P.E. CLASSIFIER OI.P.E. CLA

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
| _ | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| Claim            | Y   | ×               |                  | Da                | ate      |              |          |                 |          | Cla           | im            |           |          |          |                 | Da   | te       |          |          |          |          |   | Cla           | ıim           |             |          |   |  | Da            | te       |          |          | Ī |
|------------------|---|-----------------|------------------|-------------------|----------|--------------|----------|-----------------|----------|---------------|---------------|-----------|----------|----------|-----------------|--|----------|----------|----------|----------|----------|---|---------------|---------------|-------------|----------|---|--|---------------|----------|----------|----------|---|
| a                | 77  | 1               |                  |                   | I        | 1            |          |                 |          |               | <del></del>   |           |          |          | I               |  |          |          |          | -        |          |   |               | 듄             |             |          |   |  |               |          |          | Г        | 7 |
| رق ا             | 4   | 3               |                  |                   |          |              |          |                 |          | m             | ij            |           |          | ١.       |                 |  |          |          |          |          |          |   | - l           | انقرا         |             |          |   |  | l             | l        | l        | 1        | - |
| Final            | J'  | 10              |                  | -                 |          |              |          |                 |          | Final         | Original      |           |          |          |                 |  |          |          |          |          |          |   | Final         | Original      |             |          | i |  | ļ             | l        |          | ı        | Į |
| 1                | X   |                 | +                | +                 | 十        | +-           | +        | +-              |          |               | 51            |           |          |          | $\vdash$        | <del>                                     </del> |          | _        |          | Н        |          | ĺ | 一             | 101           |             |          | _ | t  | $\vdash$      | ├        | $\vdash$ | ╆        | - |
| 2                | <del>?</del> }                                | <del>y</del>  - |                  |                   | +        | +            | ╁        | +               | _        | -             | 52            | -         |          |          | $\vdash$        | ├  |          |          |          | -        | _        | 1 |               | 102           |             |          |   | ┢  | ┝             | ┝        | -        | ╁        | _ |
|                  |   | 7               | +                | -                 | +        | +            | ╀        | +-              |          | <u> </u>      |               | ┢         |          |          | -               | <b>├</b>   |          |          |          | Н        |          |   |               |               |             |          |   | ├  | ├             | ├        | ├        | ┢        | _ |
| 3                | _   | /               | $\perp$          |                   | 1        |              | ┸        | $\downarrow$    |          | L.            | 53            | _         |          |          | <u> </u>        | 1_   |          |          |          | Ш        |          |   |               | 103           |             |          |   | L  | L             |          |          |          |   |
| 4                |   | 1               |                  | $\perp$           | $\perp$  | $\perp$      | $\perp$  |                 |          |               | 54            |           |          |          | L               | L  |          | _        | L        |          |          |   |               | 104           |             |          |   |  |               |          | l.       | L        |   |
| 5                |   | <b>/</b>        |                  |                   |          |              |          |                 |          |               | 55            |           |          |          |                 | L.   |          |          |          |          |          |   | 1 1           | 105           |             |          |   |  | ł             |          |          |          |   |
| 6                | 1   | /               | 1.               |                   |          | İ            | 1        | 1               |          | - 1           | 56            | 1         |          |          |                 | I  |          |          |          |          |          |   |               | 106           |             |          |   | l  |               |          |          | Г        |   |
| 12               | $\lambda$                                     | 7               |                  |                   | Т        | Т            | Т        | Т               |          |               | 57            |           |          |          |                 | Г  |          |          |          | П        |          |   |               | 107           |             |          |   |  |               |          |          | Τ        | _ |
| <b>8</b>         |   | <b>7</b>        | $\top$           | _                 | 1        | $\top$       | T        | $\top$          | $\neg$   |               | 58            | Г         |          |          |                 |  | П        |          |          | H        |          |   |               | 108           |             |          | _ | <del>                                     </del> | 1             | Г        | $\vdash$ | $\vdash$ | - |
| 33               | 4   |                 | _                | 1                 | +        | ✝            | ╈        | 1               | _        |               | 59            |           | -        | _        |                 | $\vdash$   |          |          | -        |          |          |   |               | 109           |             |          | _ |  | ┰             | ┢        |          | $\vdash$ | - |
| 10               | 1   | 1               | -                | +                 | +        | +            | +        | +               | _        |               | 60            |           | Н        | -        |                 |  |          | -        | $\vdash$ | H        | -        |   |               | 110           |             | -        |   | <del>                                     </del> | $\vdash$      | $\vdash$ | -        | ╁╌       | - |
| 11               |   | $\forall$       | +                | +                 | +        | +-           | +-       | +-              | $\dashv$ | -             | 61            |           | $\vdash$ | -        | -               | $\vdash$   | $\dashv$ |          |          | $\vdash$ |          |   |               | 111           | -           | _        |   | ├  | -             | ├        |          | ⊢        | - |
| _                | <u></u>                                       |                 |                  | +                 | ╀        | -            | +        | +               |          | <u> </u>      |               | -         | Н        |          |                 | <del> </del>                                     |          |          | _        | $\vdash$ | -        |   |               | $\rightarrow$ | -           |          | ÷ | -  |               | ⊢        | _        | 1        | _ |
|                  |   | 4               | $\perp$          | 4                 | +        | <del> </del> | ↓        | -               |          | ļ             | 62            | _         | _        |          |                 | L.   | _        | _        | _        | Ц        | _        |   |               | 112           | _           |          |   | <u> </u>   | L_            | <u> </u> |          |          |   |
| 13               |   |                 |                  |                   |          |              | _        | ╙               |          | $\perp$       | 63            |           |          |          |                 |  |          |          |          | Ц        |          |   | $\rightarrow$ | 113           | _           |          |   | _  |               |          | _        |          |   |
| 1 <u>4</u><br>15 |   | 4               | ┸                |                   |          |              |          |                 |          |               | 64            |           |          |          |                 |  |          |          |          |          |          |   |               | 114           |             |          |   |  |               |          |          |          |   |
| 15               |   | 7               |                  |                   |          |              |          |                 | ı        | L             | 65            |           |          |          |                 |  |          |          |          |          |          |   |               | 115           |             |          |   | ı  |               |          |          |          |   |
| 16               | ٦   | /               | T                | T                 |          | T            | Т        |                 |          |               | 66            |           |          |          |                 |  |          |          |          |          |          |   | П             | 116           | $\neg$      |          |   |  |               |          |          | 1        | • |
| 17               |   | /               | $\top$           | 1                 | $\top$   | $\top$       | 1        | 1               |          |               | 67            | _         |          |          |                 |  |          |          |          | П        |          |   |               | 117           | 12.0        |          |   | Г  |               |          | $\vdash$ | $\vdash$ | • |
| 18               |   | 1               | $\top$           | $\top$            | T        | +-           | $^{+}$   | $\dagger$       | $\dashv$ | $\vdash$      | 68            | $\neg$    |          | _        |                 |  | _        | _        | Н        | $\dashv$ | $\neg$   |   | -             | 118           | -           | _        | _ | -  |               | -        | H        | H        |   |
| 19               | 1   | $\forall$       | +                | +                 | +        | H            | ╁        | ┿               |          | -             | 69            | $\vdash$  |          | -        | -               | -  |          |          | Н        | $\dashv$ | -        |   |               | 119           | -           |          |   |  |               | $\vdash$ | $\vdash$ | $\vdash$ | • |
|                  |   | +               | ╁                | ╁                 | ╀        | ╀            | +-       | ┿               |          | -             | $\overline{}$ |           |          | _        |                 | -  | -        | _        |          | $\dashv$ | -        |   | $\rightarrow$ |               |             | -        |   | -  |               | _        | -        | ╀        | - |
| 20               | ١,  | 1               | 1                |                   | 1_       | <u> </u>     | <u> </u> | $\perp$         | _        |               | 70            |           |          |          |                 | L  |          |          |          |          | _        |   |               | 120           | _           | _        |   |  | L_            | _        | _        | 乚        |   |
| 21               |   |                 | ┸                | ┸                 |          |              |          |                 |          |               | 71            |           |          |          |                 |  |          |          |          |          |          |   |               | 121           |             |          |   | L  |               |          |          |          |   |
| 22               |   |                 |                  |                   |          |              |          |                 |          |               | 72            |           |          |          |                 |  |          |          |          |          |          |   | 1             | 122           |             |          |   |  |               |          | 1        |          |   |
| 23               |   | Т               | Т                |                   | 1        | Τ            | $\Gamma$ |                 | $\neg$   |               | 73            |           |          |          |                 |  |          |          |          |          |          |   |               | 123           |             |          |   |  |               |          |          | Π        |   |
| 24               |   |                 | T                |                   |          |              |          |                 |          | П             | 74            |           |          |          |                 |  |          |          |          |          | $\neg$   |   |               | 124           | $\neg$      | $\neg$   | - |  |               |          |          | Ι        | • |
| 25               |   | $\top$          | T                | $\top$            | 1        | 1            | 1        |                 | 7        | $\sqcap$      | 75            | $\neg$    |          | 7        | $\neg$          |  | _        | $\neg$   |          | _        | ᅥ        |   | $\Box$        | 125           | 7           | $\neg$   |   |  |               |          |          | T        |   |
| 26               | $\neg$  | +               | +                | +                 | 1        | 1            | 1        | 1               | $\dashv$ |               | 76            | -         |          |          |                 |  | ᅥ        | _        |          | _        | $\dashv$ |   |               | 126           |             | _        |   | -  | -             | -        | _        | ┰        | - |
| 27               | -   | +               | +                | +                 | ╁        | ╁            | 1        | +-              |          |               | 77            | $\dashv$  | -        |          | $\dashv$        | $\vdash$   | -        |          |          | +        | $\dashv$ |   |               | 127           | ᅱ           | -        | _ |  | _             | $\vdash$ | _        | ⊢        | - |
| 28               | +   | ╁               | +                | ╫                 | ╁┈       | ├            | +-       | -               | $\dashv$ |               | 78            | $\dashv$  |          |          |                 | $\vdash$   | $\dashv$ | -        | -        | -        | {        |   |               | 128           |             |          |   | ├  |               | -        |          |          | - |
|                  | -   |                 | +                | -                 | ┢        | <b>├</b>     | ┼        | ╄┈              |          |               | 1             | $\dashv$  | $\dashv$ |          |                 |  |          | -        |          | -        | -1       |   |               |               | -           | -        |   | <u> </u>   | _             |          | _        | _        | - |
| 29               |   |                 | -                | -                 | ↓_       | <u> </u>     | _        | Н               | _        |               | 79            | _         | _        | -        | _               | -  |          | _        |          | _        | _        |   |               | 129           | -           |          | _ |  |               |          | L        |          | _ |
| 30               |   | $\perp$         |                  |                   | _        | _            | L.       |                 |          |               | 80            |           |          | _        |                 |  |          | _        | $\Box$   | _        |          |   | -             | 130           | _           | _        |   |  |               |          |          | _        |   |
| 31               |   | ┸               | ┸                |                   |          | L.           |          |                 |          | $\rightarrow$ | 81            |           |          | $\Box$   |                 |  |          |          |          |          |          |   |               | 131           |             |          |   | L  |               |          |          | L        |   |
| 32               | Ì   |                 | 1                |                   |          |              |          |                 |          | 1             | 82            |           |          |          |                 |  |          |          | Ì        |          |          |   |               | 132           |             |          |   |  |               |          |          |          |   |
| 33               |   | Т               | Т                | T                 | Π        | Γ            |          | П               |          |               | 83            | П         |          | П        | П               |  | T        |          |          | T        | $\neg$   |   | П             | 133           |             |          |   |  |               |          |          |          |   |
| 34               |   | ⇈               | ┪                |                   |          | Π            |          |                 |          | $\Box$        | 84            |           | $\neg$   | ヿ        | $\neg \uparrow$ |  | ヿ        | T)       | コ        |          |          |   |               | 134           |             |          |   |  |               |          |          | _        | • |
| 35               | $\dashv$                                      | $\top$          | $\top$           | 1                 |          |              |          |                 |          |               | 85            | $\exists$ | $\dashv$ | ┪        | $\neg$          | $\neg$   | _        | 寸        | ヿ        | 7        | ┪        |   |               | 135           | 寸           | 7        | _ |  | $\overline{}$ |          |          | Т        | - |
| 36               |   | +               | ╁                |                   |          | $\vdash$     | $\vdash$ | +               | -        |               | 86            | $\dashv$  | $\dashv$ | $\dashv$ | 一               |  | $\dashv$ | $\dashv$ |          | $\dashv$ | -        |   |               | 136           | -           | $\dashv$ |   |  |               |          |          | -        | * |
| 37               | +   |                 | ╫                | ╁                 | +        | ╁            | -        | $\vdash$        | -        |               | 87            | -+        | -        | -+       | $\dashv$        | -  | -        | $\dashv$ | -        | $\dashv$ | ⊣        |   | -             | 137           | +           | -        | - |  | _             |          |          | $\vdash$ | - |
| 38               | +   | +               | +                | +-                | -        | <del> </del> | -        | $\vdash$        |          |               | 88            | $\dashv$  | $\dashv$ | $\dashv$ | $\dashv$        | $\dashv$   | -        | $\dashv$ | -        | $\dashv$ | $\dashv$ |   |               |               |             | $\dashv$ | - |  |               |          |          | _        | - |
| _                | $\perp$                                       | +               | +                | -                 | ⊢        | <u> </u>     | <b>-</b> | $\vdash$        | _        | $\vdash$      | $\overline{}$ |           |          | 4        | -               |  | -        |          | _        | -+       | -1       |   |               | 38            | 4           |          |   |  | _             | _        | _        |          | - |
| 39               | +   | 4               | 1                | ↓_                | ļ        | ļ            | <u> </u> | Ш               | _        | $\rightarrow$ | 89            | _         |          | _        | _               | _  | _        |          |          | 4        | _        |   | -             | 39            | _           | 4        | _ |  |               |          |          | _        | _ |
| 40               |   | 1               | $\perp$          |                   | _        |              |          |                 |          |               | 90            | 1         |          |          |                 | $_{\perp}$                                       |          | _        |          |          |          |   |               | 40            | _ ;         |          |   |  |               |          |          |          |   |
| 41<br>42         |   |                 |                  | T                 |          |              |          |                 |          |               | 91            | Т         | T        |          | Î               |  |          |          |          |          |          |   |               | 141           | 7           |          |   |  |               |          |          |          |   |
| 42               | $\top$  | $\top$          | 1                | 1                 | $I^-$    |              |          |                 | ┪        | $\Box$        | 92            | $\dashv$  | 寸        |          | _               | _  | 7        | _        | _        | _        | ╗        |   |               | 142           | 1           |          |   |  |               |          |          |          |   |
| 43               | $\top$  | ┪               | +                | +                 | ┢        | H            | H        | H               | $\dashv$ |               | 93            | ┪         | -        | T        | 7               | -  | -        | ┪        | $\dashv$ | _        | ᅥ        |   |               | 143           | -           | -        | _ |  |               | _        |          |          | • |
| 43<br>44         | +   | ╁               | +                | +                 | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$        | $\dashv$ |               | 94            | -         | $\dashv$ | -+       | -+              | -  | $\dashv$ |          |          | +        | $\dashv$ |   | -             | 144           | $\dashv$    | -+       |   | $\vdash$   |               |          |          |          | - |
| 45               | -   | +               | +                | -                 | -        | -            |          |                 |          |               |               |           | -        |          |                 | $\dashv$   |          |          |          | +        | $\dashv$ |   |               |               | $\dashv$    | -        | _ |  |               | -        |          |          | - |
|                  | +   | -               | +                | +                 | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash \vdash$ | -        |               | 95            | -         |          |          | _               | 4  |          |          | -        | $\dashv$ | 4        |   |               | 45            | 4           | _        | _ |  |               | _        | -        |          | - |
| 46               | _   | 4               | _                | 1                 | _        | _            | $\vdash$ | Ш               | _        |               | 96            | _         | _        |          | _               | _  | _        | $\dashv$ |          | -4       | $\sqcup$ |   | -             | 46            | _           |          | _ | _  | _             |          | _        |          |   |
| 47               |   | $\perp$         | $\perp$          | L                 | L        | L            | L        |                 |          |               | 97            |           |          | ╝        |                 | ╝  |          | l        |          |          | _]       |   |               | 47            | $ \rfloor $ |          |   |  |               |          |          |          | _ |
| 48               | $oxedsymbol{oxedsymbol{oxedsymbol{\square}}}$ |                 | $\mathbf{I}^{-}$ | $\prod_{i=1}^{n}$ |          | $\Box$       |          | □               |          |               | 98            | _T        | $_{T}$   | _T       |                 |  |          | П        | Ī        | Τ        | ٦        |   | 1             | 48            | Ţ           | T        |   |  |               |          |          |          | • |
| 49               |   | Т               | Τ                |                   |          |              |          | П               | 7        | П             | 99            | T         | $\neg$   | $\neg$   | $\neg$          |  |          | $\neg$   | 丁        |          | ٦        |   |               | 49            | 7           |          |   |  |               |          |          |          | • |
| 50               | 7   | T               | 7                | Т                 | -        |              | Π        | $\Box$          | 7        |               | 00            | _         |          | 7        | _               |  | 7        | $\neg$   |          | 寸        | ヿ        |   | 1             | 50            | _†          | 寸        |   |  |               |          | $\neg$   | -        |   |

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